

STIC Database Tracking Number: 237860

To: TIMOTHY SIMONE
Location: REM-8A79
Art Unit: 1761
Wednesday, September 19, 2007

Case Serial Number: 09/889672

From: KENDRA BANKS
Location: EIC1700
REM-4B28 / REM-4A28
Phone: (571)272-2516

kendra.banks@uspto.gov

Search Notes

Examiner SIMONE:

No Cases Reported

US 6,354,196

PATNO IS 6354196

DATE: SEPTEMBER 19, 2007
LIBRARY: PATENT
FILE: ALL

our search request is:
PATNO IS 6354196

umber of PATENTS found with your search request through:
LEVEL 1... 1

our search request has found 1 PATENT through Level 1.
o DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.
o MODIFY your search request, press the M key (for MODIFY) and then the ENTER
ey.

or further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

. 6354196 , March 12, 2002 , Apparatus for gas treatment of products, Malmberg, onny - Helsingborg, Sweden (SE); Blixt, Per - Helsingborg, Sweden (SE); Hocker, on A - Kirkland, Washington, United States (US); Wilson, Rick - Kent, ashington, United States (US), 889672 (09), September 27, 2001 - ASSIGNMENT OF SSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., FRIGOSCANDIA EQUIPMENT AB BOX 13SE-251 09 HELSINBORG, (1), Reel and Frame Number: 012201/0001, Frigoscandia quipment A/S, HelsingBorg, Sweden (SE), Foreign company or corporation (03)

ORE TERMS: tunnel, chamber, high-pressure, housing, gas, conveyor belt, erforated, path, channel, conditioning ...

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6354196

March 12, 2002

Apparatus for gas treatment of products

ISSUE: March 11, 2004 - Reissue Application filed Ex. Gp.: 1761; Re. S.N.
0/798,251 (O.G. June 15, 2004)

PPL-NO: 889672 (09)

FILED-DATE: July 19, 2001

GRANTED-DATE: March 12, 2002

MORE TERMS: tunnel, chamber, high-pressure, housing, gas, conveyor belt,
perforated, path, channel, conditioning ...

354196 OR 6,354,196

our search request has found no ITEMS.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

- Our search request has found no CASES.
- To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.
- To enter a new search request, type it and press the ENTER key.
- What you enter will be Search Level 1.
- For further explanation, press the H key (for HELP) and then the ENTER key.

Patent Search 6354196 9/19/2007

No cases found.

[Return to Search](#)

(Charges for search still apply)



Current session 19/09/2007

(C) QUESTEL 1994

QUESTEL.ORBIT (TM) 1998

19/09/07 20*38*34

Last connection: 14/09/07 15*13*21

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-GBFULL: Fulltext GB Applications released -see Fact Sheet
-2006 Euro and US Dollar price lists available from website
-FamPat:key full text content added; see details on website
..FILE / ..INFO / ..GUIDE

Query/Command : FILE PLUSPAT

QUESTEL - Time in minutes : 0,57

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standard price list

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Cost estimated for the last database search :	0.64 USD
Estimated total session cost :	0.64 USD

Selected file: PLUSPAT

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Comprehensive Worldwide Patents database
Individual records for each Country or Patent Office
Coverage: 77 patenting authorities; start dates vary from 1800 forward
For PlusPat Fact Sheet, Pricing and FAQ, see the Questel.Orbit website
Citations and FI/F-term classification available for Japanese documents
Last update of file: 2007/09/14 (YYYY/MM/DD) 2007-37/UP (last update)

Search statement 1

Query/Command : US6354196/PN

*** SS 1: Results 1**

Search statement 2

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US6354196 B1 20020312 [US6354196]

TI - (B1) Apparatus for gas treatment of products

PA - (B1) FRIGOSCANDIA EQUIPMENT AS (SE)

PA0 - Frigoscandia Equipment A/S, HelsingBorg [SE]

IN - (B1) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)

AP - US88967201 20010719 [2001US-0889672]

FD - PCT/SE00/00110 20000120 [2000WO-SE00110]
WO00/42869 20000727 [WO200042869]

PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]

IC - (B1) A23L-001/00 A23L-001/01 A23L-003/36 F25D-003/11 F25D-023/02

ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

PCL - ORIGINAL (O) : 099443000C; CROSS-REFERENCE (X) : 099386000 099476000 099477000 126021000A

DT - Corresponding document

CT - US1817875; US3813895; US3908533; US3991737; US4368664; US4478141; US4576090; US4679542; US4779524; US4831238; US4873107; US4909430; US4951648; US4986174; US5231920; US5408921; EP0249323

STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

AB - An apparatus for gas treatment of products rises a housing having top, bottom and side walls; a conveyor belt for transporting the products along a first path in the housing; a tunnel having perforated walls and enclosing the conveyor belt along the first path; a gas circulation device communicating with the tunnel via the perforated walls for circulating gas into the tunnel in the form of gas jets impinging upon the products carried by the conveyor belt, and out of the tunnel in a return channel back to the gas circulation device; and a gas conditioning device positioned in the return channel. At least one substantially vertical part of the connecting walls of the high-pressure chamber is removable so as to provide access to the inside of the pressure chamber, and at least one of the side walls of the housing along the high-pressure chamber may be movable so as to widen the space between at least one wall and the high-pressure chamber.

UP - 2002-12

1 / 1 LGST - ©EPO

PN - US6354196 B1 20020312 [US6354196]
AP - US88967201 20010719 [2001US-0889672]
ACT - 20010927 US/AS-A
ASSIGNMENT
OWNER: FRIGOSCANDIA EQUIPMENT AB BOX 913 SE-251 09 HELSIN; EFFECTIVE DATE: 20010607
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MALMBERG, JONNY;BLIXT, PER; HOCKER, JON A.;AND OTHERS;REEL/FRAME:012201/0001

20010927 US/AS-A
ASSIGNMENT
OWNER: FRIGOSCANDIA EQUIPMENT AB BOX 913SE-251 09 HELSINB; EFFECTIVE DATE: 20010607
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MALMBERG, JONNY /AR;REEL/ FRAME:012201/0001

20040615 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040311

UP - 2006-03

1 / 1 CRXX - ©CLAIMS/RRX

PN - 6,354,196 A 20020312 [US6354196]
PA - Frigoscandia Equipment A S SE
ACT - 20040311 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040615
REISSUE REQUEST NUMBER: 10/798251
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1761

Reissue Patent Number:

Search statement 2

Query/Command : FILE INPADOC

LGST - Time in minutes : 0,02
The cost estimation below is based on Questel's
standard price list

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Records displayed and billed :	1	
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Estimated total session cost :		1.36 USD

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Cost estimated for the last database search :		6.03 USD
Estimated total session cost :		7.39 USD

LITA - Time in minutes : 0,00
The cost estimation below is based on Questel's
standard price list

Estimated total session cost :		7.39 USD
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PLUSPAT - Time in minutes : 0,31
The cost estimation below is based on Questel's
standard price list

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Records displayed and billed :	1	
	Estimated cost :	1.55 USD
Cost estimated for the last database search :		2.45 USD
Estimated total session cost :		9.84 USD

Selected file: PLUSPAT

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Citations and FI/F-term classification available for Japanese documents
Last update of file: 2007/09/14 (YYYY/MM/DD) 2007-37/UP (last update)

Search statement 2

Query/Command : FAM US6354196/PN

1 Patent Groups

Search statement 3

?

Query/Command : FAMSTATE NONSTOP

1 / 25 PLUSPAT - ©QUESTEL-ORBIT

PN - AT252853 T 20031115 [ATE252853]
STG - (T) EP Patent valid in AT
OTI - (T) APPARAT ZUR GASBEHANDLUNG VON PRODUKTEN
PA - (T) FRIGOSCANDIA EQUIPMENT AB (SE)
IN - (T) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
IC - (T) A23L-003/00 B01J-008/46
AP - AT00902267T 20000120 [2000AT-0902267]
PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]
ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]
ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]
EC - A21B-001/48
A23L-003/18
A23L-003/18D
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A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12
UP - 2003-47

1 / 1 LEGALI - ©EPO

PN - AT252853 T 20031115 [ATE252853]

AP - AT00902267T 20000120 [2000AT-0902267]
ACTE - 20040415 AT/RER-T [-]
CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES
UP - 2004-20

2 / 25 PLUSPAT - ©QUESTEL-ORBIT

PN - AU2339400 A 20000807 [AU200023394]
STG - (A) Open to public inspection
TI - (A) Apparatus for gas treatment of products
PA - (A) FRIGOSCANDIA EQUIPMENT AB
IN - (A) MALMBERG JONNY; BLIXT PER; HOCKER JON A; WILSON RICK
IC - (A) A23L-003/00 B01J-008/46
PN2 - AU757869 B2 20030306 [AU-757869]
STG2 - (B2) Patent preceded by OPI
TI2 - (B2) Apparatus for gas treatment of products
PA2 - (B2) FRIGOSCANDIA EQUIPMENT AB
IN2 - (B2) MALMBERG JONNY; BLIXT PER; HOCKER JON A; WILSON RICK
IC2 - (B2) A23L-003/00 B01J-008/46
AP - AU2339400 20000120 [2000AU-0023394]
PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]
ICAA - F25D-013/00 [2006-01 A F I R M EP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]
ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]
EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

UP - 2000-44

3 / 25 PLUSPAT - ©QUESTEL-ORBIT

PN - BR0009006 A 20011127 [BR200009006]
STG - (A) Patent Application
OTI - (A) Aparelho para tratamento por g s de produtos
PA - (A) FRIGOSCANDIA EQUIPMENT AB (SE)
IN - (A) MALMBERG JONNY; BLIXT PER; HOCKER JON A; WILSON RICK
IC - (A) A23L-003/00 B01J-008/46
AP - BR0009006 20000120 [2000BR-0009006]
PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]
ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]
ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]
EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
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A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

UP - 2001-49

4 / 25 PLUSPAT - ©QUESTEL-ORBIT

PN - CA2356977 A1 20000727 [CA2356977]
STG - (A1) Application laid open
TI - (A1) APPARATUS FOR GAS TREATMENT OF PRODUCTS
OTI - (A1) APPAREIL DE TRAITEMENT GAZEUX DE PRODUITS
PA - (A1) FRIGOSCANDIA EQUIPMENT AB (SE)

IN - (A1) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
IC - (A1) A23L-003/00 B01J-008/46
PN2 - CA2356977 C 20041123 [CA2356977]
STG2 - (C) Patent
TI2 - (C) APPARATUS FOR GAS TREATMENT OF PRODUCTS
OTI2 - (C) APPAREIL DE TRAITEMENT GAZEUX DE PRODUITS
PA2 - (C) FRIGOSCANDIA EQUIPMENT AB (SE)
IN2 - (C) WILSON RICK (US); BLIXT PER (SE); HOCKER JON A (US); MALMBERG JONNY (SE)
IC2 - (C) A23L-003/00 B01J-008/46
LA - ENGLISH (ENG)
AP - CA2356977 20000120 [2000CA-2356977]
PR - WOSE0000110 20000120 [2000WO-SE00110]
 SE9900166 19990120 [1999SE-0000166]
ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]
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EC - A21B-001/48
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 A23L-003/3409B
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 A23L-003/3445
 A23L-003/36
 A23L-003/36D
 A23L-003/36D2
 A23L-003/40
 F25D-013/06C
 F26B-017/04
 F26B-021/02
 F26B-025/12
UP - 2003-03

1/1 LEGALI - ©EPO

PN - CA2356977 A1 20000727 [CA2356977]CA2356977 C 20041123 [CA2356977]
AP - CA2356977 20000120 [2000CA-2356977]

ACTE - 20010628 CA/AFNE-A [+]
NATIONAL PHASE ENTRY

20030403 CA/AFNE-A [+]
NATIONAL PHASE ENTRY
EFFECTIVE DATE: 20010628

20040204 CA/EEER-A [+]
EXAMINATION REQUEST

20040226 CA/AFNE-A [+]
NATIONAL PHASE ENTRY
EFFECTIVE DATE: 20010628

20040226 CA/EEER-A [+]
EXAMINATION REQUEST
EFFECTIVE DATE: 20040204

20050107 CA/EEER-A [+]
EXAMINATION REQUEST
EFFECTIVE DATE: 20040204

UP - 2006-23

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PN - CN1336801 A 20020220 [CN1336801]

STG - (A) Unexamined application

TI - (A) Apparatus for gas treatment of products

PA - (A) FRIGOSCANDIA EQUIPMENT AB (SE)

IN - (A) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JOHN A (SE)

IC - (A) A23L-003/00 B01J-008/46

PN2 - CN1235519 C 20060111 [CN1235519C]

STG2 - (C) Granted patent

TI2 - (C) Apparatus for gas treatment of products

PA2 - (C) FRIGOSCANDIA EQUIPMENT AB (SE)

IN2 - (C) HOCKER JONNY MALMBERG PER BLIX (SE)

IC2 - (C) A23L-003/00 A23L-003/02 A23L-003/04 A23L-003/16 A23L-003/18 A23L-003/34 A23L-003/3409
A23L-003/3418 A23L-003/3445 A23L-003/36 A23L-003/40 B01J-008/24 B01J-008/46 F25D-013/00 F25D-
013/06 F26B-017/00 F26B-017/04 F26B-021/02 F26B-025/06 F26B-025/12

AP - CN00802959 20000120 [2000CN-0802959]

PR - SE9900166 19990120 [1999SE-0000166]

ICAA - A23L-003/00 [2006-01 A F I B H CN]; F25D-013/00 [2006-01 A F I R M JP]; A23L-003/04 [2006-01 A - I R
M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418
[2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP];
A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R
M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01
A - I R M EP]

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A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

UP - 2005-08

6 / 25 PLUSPAT - ©QUESTEL-ORBIT

PN - CN1781387 A 20060607 [CN1781387]

STG - (A) Unexamined application

TI - (A) High pressure chamber and apparatus for gas treatment of products

PA - (A) FRIGOSCANDIA EQUIPMENT AB (SE)

IN - (A) RICK MALMBERG JONNY BLIXT PER (SE)

IC - (A) A23L-003/00 A23L-003/02 A23L-003/04 A23L-003/16 A23L-003/18 A23L-003/34 A23L-003/3409 A23L-003/3418 A23L-003/3445 A23L-003/36 A23L-003/40 B01J-008/24 B01J-008/46 F25D-013/00 F25D-013/06 F26B-017/00 F26B-017/04 F26B-021/02 F26B-025/06 F26B-025/12

AP - CN200510124752 20000120 [2005CN-0124752]

PR - SE9900166 19990120 [1999SE-0000166]

ICAA - A23L-003/00 [2006-01 A F I B H CN]; F25D-013/00 [2006-01 A F I R M JP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C F I B H CN]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
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F25D-013/06C
F26B-017/04
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F26B-025/12

UP - 2006-33

7 / 25 *PLUSPAT - ©QUESTEL-ORBIT*

PN - DE60006212 D1 20031204 [DE60006212]
STG - (D1) Granted EP number in bulletin
OTI - (D1) APPARAT ZUR GASBEHANDLUNG VON PRODUKTEN
PA - (D1) FRIGOSCANDIA EQUIPMENT AB HELS (SE)
IN - (D1) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER A (US); WILSON RICK (US)
IC - (D1) A23L-003/00 B01J-008/46
PN2 - DE60006212 T2 20040415 [DE60006212]
STG2 - (T2) Trans. Of EP patent
OTI2 - (T2) APPARAT ZUR GASBEHANDLUNG VON PRODUKTEN
PA2 - (T2) FRIGOSCANDIA EQUIPMENT AB HELS (SE)
IN2 - (T2) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER A (US); WILSON RICK (US)
IC2 - (T2) A23L-003/00 B01J-008/46
AP - DE60006212 20000120 [2000DE-6006212]
PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]
ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]
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EC - A21B-001/48
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A23L-003/40
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UP - 2003-49

1 / 1 LEGALI - ©EPO

PN - DE60006212 D1 20031204 [DE60006212]DE60006212 T2 20040415 [DE60006212]
AP - DE60006212 20000120 [2000DE-6006212]
ACTE - 20041021 DE/8363-A [-]
OPPOSITION AGAINST THE PATENT
UP - 2004-43

8 / 25 PLUSPAT - ©QUESTEL-ORBIT

PN - DK1143814 T3 20040126 [DK1143814T]
STG - (T3) Translations of EP patents
OTI - (T3) Apparat til gasbehandling af produkter
PA - (T3) FRIGOSCANDIA EQUIPMENT AB (SE)
IN - (T3) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
IC - (T3) A23L-003/00 B01J-008/46
AP - DK00902267T 20000120 [2000DK-0902267]
PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]
ICAA - F25D-013/00 [2006-01 A - I R M EP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]
ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
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A23L-003/40
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F26B-017/04
F26B-021/02
F26B-025/12

UP - 2004-06

9 / 25 PLUSPAT - ©QUESTEL-ORBIT

PN - EP1143814 A1 20011017 [EP1143814]
STG - (A1) Public. Of applic. With search report
TI - (A1) APPARATUS FOR GAS TREATMENT OF PRODUCTS
OTI - (A1) APPARAT ZUR GASBEHANDLUNG VON PRODUKTEN
(A1) APPAREIL DE TRAITEMENT GAZEUX DE PRODUITS
PA - (A1) FRIGOSCANDIA EQUIPMENT AB (SE)
IN - (A1) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
IC - (A1) A23L-003/00 B01J-008/46
PN2 - EP1143814 B1 20031029 [EP1143814]
STG2 - (B1) Patent
TI2 - (B1) APPARATUS FOR GAS TREATMENT OF PRODUCTS
OTI2 - (B1) APPARAT ZUR GASBEHANDLUNG VON PRODUKTEN
(B1) APPAREIL DE TRAITEMENT GAZEUX DE PRODUITS
PA2 - (B1) FRIGOSCANDIA EQUIPMENT AB (SE)
IN2 - (B1) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
IC2 - (B1) A23L-003/00 B01J-008/46
LA - ENGLISH (ENG)
AP - EP00902267 20000120 [2000EP-0902267]
PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]
ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

PN - EP1143814 A1 20011017 [EP1143814]EP1143814 B1 20031029 [EP1143814]
AP - EP00902267 20000120 [2000EP-0902267]
ACTE - 20011017 EP/AK-A [+]
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EXTENSION OF THE EUROPEAN PATENT TO
AL;LT;LV;MK;RO;SI

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REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 20010626

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20040701 EP/REG-A; ES/FG2A
ES: DEFINITIVE PROTECTION
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FR: TRANSLATION FILED

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EFFECTIVE DATE: 20031029

UP - 2007-08

10 / 25 PLUSPAT - ©QUESTEL-ORBIT - image

PN - EP1330959 A2 20030730 [EP1330959]
STG - (A2) Pub. Of applic. Without search report
TI - (A2) Apparatus for gas treatment of products
OTI - (A2) Vorrichtung für Produktbehandlung durch ein Gas
(A2) Appareil de traitement de produits par gaz
PA - (A2) FRIGOSCANDIA EQUIPMENT AB (SE)
PA0 - FRIGOSCANDIA EQUIPMENT AKTIEBOLAG / P.O. Box 913 / 251 09 Helsingborg (SE)
IN - (A2) BLIXT PER (SE); MALMBERG JONNY (SE); WILSON RICK (US); HOCKER JON A (US)
IC - (A2) A23L-003/04 A23L-003/18 A23L-003/3409 A23L-003/36 A23L-003/40
PN2 - EP1330959 A3 20030903 [EP1330959]
STG2 - (A3) Publi. Of search report
TI2 - (A3) Apparatus for gas treatment of products
OTI2 - (A3) Vorrichtung für Produktbehandlung durch ein Gas
(A3) Appareil de traitement de produits par gaz
PA2 - (A3) FRIGOSCANDIA EQUIPMENT AB (SE)
IN2 - (A3) BLIXT PER (SE); MALMBERG JONNY (SE); WILSON RICK (US); HOCKER JON A (US)
IC2 - (A3) A23G-007/02 A23L-003/04 A23L-003/18 A23L-003/3409 A23L-003/36 A23L-003/40
LA - ENGLISH (ENG)
AP - EP03008337 20000120 [2003EP-0008337]
PR - EP00902267 20000120 [2000EP-0902267]
SE9900166 19990120 [1999SE-0000166]
ICAA - A23L-003/015 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]
ICCA - A23L-003/015 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]
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F26B-017/04
F26B-021/02
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DT - Basic
UP - 2003-31

1 / 1 LEGALI - ©EPO

PN - EP1330959 A2 20030730 [EP1330959]EP1330959 A3 20030903 [EP1330959]

AP - EP03008337 20000120 [2003EP-0008337]
ACTE - 20030730 EP/AC-A
DIVISIONAL APPLICATION (ART. 76) OF:
(EP 1143814 [EP1143814])

20030730 EP/AK-A [+]
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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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20030903 EP/RIC1-A
CLASSIFICATION (CORRECTION)
7 A23L-003/36 A

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20031015 EP/RIN1-A
INVENTOR (CORRECTION)
MALMBERG, JONNY

20031015 EP/RIN1-A
INVENTOR (CORRECTION)
BLIXT, PER

20031015 EP/RIN1-A
INVENTOR (CORRECTION)
HOCKER, JON A.

20031015 EP/RIN1-A
INVENTOR (CORRECTION)
WILSON, RICK

20031112 EP/RIN1-A

INVENTOR (CORRECTION)
MALMBERG, JONNY

20031112 EP/RIN1-A
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20031112 EP/RIN1-A
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HOCKER, JON A.

20031112 EP/RIN1-A
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20040526 EP/AKX-A [+]
PAYMENT OF DESIGNATION FEES
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20040526 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 20030410

20040901 EP/17Q-A [+]
FIRST EXAMINATION REPORT
EFFECTIVE DATE: 20040720

UP - 2004-36

11 / 25 PLUSPAT - ©QUESTEL-ORBIT

PN - ES2209810 T3 20040701 [ES2209810]
STG - (T3) Transl. Compl. Txt. Of grted Eur. Pat.
OTI - (T3) APARATO PARA EL TRATAMIENTO CON GAS DE PRODUCTOS.
PA - (T3) FRIGOSCANDIA EQUIPMENT AB
IN - (T3) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
IC - (T3) A23L-003/00 B01J-008/46
AP - ES00902267T 20000120 [2000ES-0902267]
PR - SE9900166 19990120 [1999SE-0000166]
ICAA - F25D-013/00 [2006-01 A - I R M EP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]
ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

UP - 2004-31

12 / 25 *PLUSPAT - ©QUESTEL-ORBIT*

PN - IL144342 D0 20020523 [IL-144342]

STG - (D0) Notice under sect. 16 patent law

TI - (D0) APPARATUS FOR GAS TREATMENT OF PRODUCTS

PA - (D0) FRIGOSCANDIA EQUIPMENT AB

IC - (D0) A23L

PN2 - IL144342 A 20040725 [IL-144342]

STG2 - (A) Applic. Laid open to publ. Inspec

TI2 - (A) APPARATUS FOR GAS TREATMENT OF PRODUCTS

PA2 - (A) FRIGOSCANDIA EQUIPMENT AB (SE)

IC2 - (A) A23L-003/00 B01J-008/46

AP - IL14434200 20000120 [2000IL-0144342]

PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]

ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

UP - 2002-48

1 / 1 LEGALI - ©EPO

PN - IL144342 D0 20020523 [IL-144342]IL144342 A 20040725 [IL-144342]
AP - IL14434200 20000120 [2000IL-0144342]
ACTE - 20041215 IL/FF-A [+] PATENTS GRANTED
20050220 IL/KB-A PATENTS RENEWED
20060312 IL/KB-A [+] PATENTS RENEWED
UP - 2006-21

13 / 25 PLUSPAT - ©QUESTEL-ORBIT

PN - IS5991 A 20010705 [IS---5991]
STG - (A)
OTI - (A) T ki til ath methhöndla afurthir meth gasi
PA - (A) FRIGOSCANDIA EQUIPMENT AB (SE)
IN - (A) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
IC - (A) A23L-003/00 B01J-008/46
LA - ICELANDIC (ICE)
AP - IS5991 20010705 [2001IS-0005991]
PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]
ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

UP - 2006-31

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PN - IS7209 A 20040407 [IS---7209]

STG - (A)

OTI - (A) T ki til ath methhöndla afurthir meth gasi

PA - (A) FRIGOSCANDIA EQUIPMENT AB (SE)

IN - (A) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)

IC - (A) A23L-003/04 A23L-003/18 A23L-003/3409 A23L-003/36 A23L-003/40

LA - ICELANDIC (ICE)

AP - IS7209 20040407 [2004IS-0007209]

PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]

ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
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F26B-025/12

UP - 2006-31

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PN - JP2002535596 T 20021022 [JP2002535596]

STG - (T) Unexam. Pat. Appl. On foreign appl.

IC - (T) A23L-003/18 A23L-003/36 A23L-003/40 F25D-013/00

AP - JP2000594341T 20000120 [2000JP-0594341]

PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]

ICAA - F25D-013/00 [2006-01 A - I R M EP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

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- PN - NO20013256 D0 20010629 [NO200103256]
- STG - (D0) Application filed
- OTI - (D0) Apparat til behandling av produkter med gass
- PA - (D0) FRIGOSCANDIA EQUIPMENT AB (SE)
- IN - (D0) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
- IC - (D0) A23L
- PN2 - NO20013256 A 20010920 [NO200103256]
- STG2 - (A) Unex. Applic. Open to public inspec
- OTI2 - (A) Apparat til behandling av produkter med gass
- PA2 - (A) FRIGOSCANDIA EQUIPMENT AB (SE)
- IN2 - (A) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
- IC2 - (A) A23L-003/00 A23L-003/3409 A23L-003/37
- PN3 - NO321341 B1 20060502 [NO-321341]
- STG3 - (B1) Granted patents
- OTI3 - (B1) Anordning for gassbehandling av produkter.
- PA3 - (B1) FRIGOSCANDIA EQUIPMENT AB (SE)
- IN3 - (B1) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
- IC3 - (B1) A23L-003/00 A23L-003/02 A23L-003/04 A23L-003/16 A23L-003/18 A23L-003/34 A23L-003/3409 A23L-003/3418 A23L-003/3445 A23L-003/36 A23L-003/37 A23L-003/40 B01J-008/24 B01J-008/46 F25D-013/00 F25D-013/06 F26B-017/00 F26B-017/04 F26B-021/02 F26B-025/06 F26B-025/12
- AP - NO20013256 20010629 [2001NO-0003256]
- PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]
- ICAA - A23L-003/3409 [2006-01 A F I B H NO]; F25D-013/00 [2006-01 A F I R M EP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A L I B H NO]; A23L-003/3418 [2006-01 A L I B H NO]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/37 [2006-01 A L I B H NO]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A L I B H NO]; F26B-025/12 [2006-01 A - I R M EP]
- ICCA - A23L-003/34 [2006 C F I B H NO]; A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C L I B H NO]; A23L-003/36 [2006 C L I B H NO]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C L I B H NO]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

UP - 2001-34

17 / 25 PLUSPAT - ©QUESTEL-ORBIT

PN - NO20060536 A 20010920 [NO200600536]

STG - (A) Unex. Applic. Open to public inspec

OTI - (A) Apparat til behandling av produkter med gass

PA - (A) FRIGOSCANDIA EQUIPMENT AB (SE)

IN - (A) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)

IC - (B1) A21B-001/00 A21B-001/48 A23L-003/00 A23L-003/02 A23L-003/04 A23L-003/16 A23L-003/18
A23L-003/34 A23L-003/3409 A23L-003/3418 A23L-003/3445 A23L-003/36 A23L-003/37 A23L-003/40
B01J-008/24 B01J-008/46 F25D-013/00 F25D-013/06 F26B-017/00 F26B-017/04 F26B-021/02 F26B-025/06
F26B-025/12

PN2 - NO323887 B1 20070716 [NO-323887]

STG2 - (B1) Granted patents

OTI2 - (B1) Hoytryksskammer og anordning for gassbehandling av produkter.

PA2 - (B1) FRIGOSCANDIA EQUIPMENT AB (SE)

IN2 - (B1) MALMBERG JONNY (SE); HOCKER JON A (US); BLIXT PER (SE); WILSON RICK (US)

IC2 - (B1) A21B-001/00 A21B-001/48 A23L-003/00 A23L-003/02 A23L-003/04 A23L-003/16 A23L-003/18
A23L-003/34 A23L-003/3409 A23L-003/3418 A23L-003/3445 A23L-003/36 A23L-003/37 A23L-003/40
B01J-008/24 B01J-008/46 F25D-013/00 F25D-013/06 F26B-017/00 F26B-017/04 F26B-021/02 F26B-025/06
F26B-025/12

AP - NO20060536 20060202 [2006NO-0000536]

PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]

ICAA - A23L-003/04 [2006-01 A F I B H NO]; F25D-013/00 [2006-01 A F I R M JP]; A21B-001/48 [2006-01 A - I
R M EP]; A23L-003/00 [2006-01 A L I B M RU]; A23L-003/18 [2006-01 A L I B H NO]; A23L-003/3409
[2006-01 A L I B H NO]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP];
A23L-003/36 [2006-01 A - I R M EP]; A23L-003/37 [2006-01 A L I B H NO]; A23L-003/40 [2006-01 A L I
B H NO]; B01J-008/46 [2006-01 A L I B M RU]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-
01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/02 [2006 C F I B H NO]; A21B-001/00 [2006 C - I R M EP]; A23L-003/00 [2006 C L I B M RU]; A23L-003/16 [2006 C L I B H NO]; A23L-003/34 [2006 C L I B H NO]; A23L-003/36 [2006 C L I B H NO]; A23L-003/40 [2006 C L I B H NO]; B01J-008/24 [2006 C L I B M RU]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

UP - 2006-19

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PN - NZ512895 A 20030131 [NZ-512895]

STG - (A) Comp. Specification accepted

TI - (A) Apparatus for gas treatment of products

PA - (A) FRIGOSCANDIA EQUIPMENT AB

IN - (A) MALMBERG JONNY; BLIXT PER; HOCKER JON A; WILSON RICK

IC - (A) A23L-003/00 B01J-008/46

AP - NZ51289500 20000120 [2000NZ-0512895]

PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]

ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
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A23L-003/3409B
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A23L-003/3445
A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
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F26B-021/02
F26B-025/12
UP - 2003-07

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PN - NZ512895 A 20030131 [NZ-512895]
AP - NZ51289500 20000120 [2000NZ-0512895]
ACTE - 20030530 NZ/PSEA-A [+]
PATENT SEALED
20040130 NZ/RENEW-A [+]
RENEWAL
UP - 2007-05

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PN - PL349881 A1 20020923 [PL-349881]
STG - (A1) Application
TI - (A1) APPARATUS FOR GAS TREATMENT OF PRODUCTS
PA - (A1) FRIGOSCANDIA EQUIPMENT AB (SE)
IN - (A1) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
IC - (A1) A23L-003/00
PN2 - PL193758 B1 20070330 [PL-193758]
STG2 - (B1) Patent
TI2 - (B1) APPARATUS FOR GAS TREATMENT OF PRODUCTS
PA2 - (B1) FRIGOSCANDIA EQUIPMENT AB (SE)
IN2 - (B1) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)
IC2 - (B1) A23L-003/00 A23L-003/02 A23L-003/04 A23L-003/16 A23L-003/18 A23L-003/34 A23L-003/3409
A23L-003/3418 A23L-003/3445 A23L-003/36 A23L-003/40 B01J-008/24 B01J-008/46 F25D-013/00 F25D-
013/06 F26B-017/00 F26B-017/04 F26B-021/02 F26B-025/06 F26B-025/12
AP - PL34988100 20000120 [2000PL-0349881]
PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]

ICAA - A23L-003/00 [2006-01 A F I B H PL]; F25D-013/00 [2006-01 A F I R M JP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C F I B H PL]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
A23L-003/3409
A23L-003/3409B
A23L-003/3418
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A23L-003/36
A23L-003/36D
A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12

UP - 2002-44

20 / 25 *PLUSPAT - ©QUESTEL-ORBIT*

PN - PT1143814 T 20040331 [PT1143814T]

STG - (T) Translated EP doc.

OTI - (T) APARELHO PARA TRATAMENTO A GAS DE PRODUTOS

PA - (T) FRIGOSCANDIA EQUIPMENT AB (SE)

IN - (T) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)

IC - (T) A23L-003/00 B01J-008/46

AP - PT00902267T 20000120 [2000PT-0902267]

PR - SE9900166 19990120 [1999SE-0000166]

ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

- EC - A21B-001/48
A23L-003/18
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F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12
- UP - 2004-22

21 / 25 PLUSPAT - ©QUESTEL-ORBIT

- PN - RU2236655 C2 20040920 [RU2236655]
- STG - (C2) Patent for invention (2nd publ.)
- TI - (C2) APPARATUS FOR GAS TREATMENT OF PRODUCTS
- IN - (C2) MAL MBERG DZHONNI (SE); BLIKST PER (SE); KHOKER DZHON A (US); UILSON RIK (US)
- IC - (C2) A23L-003/00 B01J-008/46 F25D-013/06
- AP - RU2001123229 20000120 [2001RU-0123229]
- PR - SE9900166 19990120 [1999SE-0000166]
- ICAA - F25D-013/00 [2006-01 A - I R M EP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]
- ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]
- EC - A21B-001/48
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A23L-003/36D2
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F25D-013/06C
F26B-017/04

F26B-021/02

F26B-025/12

UP - 2004-48

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PN - SE9900166 D0 19990120 [SE9900166]

STG - (D0) Application filed

OTI - (D0) Apparatus for gas treatment of products

PA - (D0) FRIGOSCANDIA EQUIPMENT AB (SE)

IN - (D0) MALMBERG JONNY; BLIXT PER; HOCKER JON A; WILSON RICK

IC - (D0) A23L

PN2 - SE9900166 L 20000721 [SE9900166]

STG2 - (L)

OTI2 - (L) Apparat för gasbehandling av produkter

PA2 - (L) FRIGOSCANDIA EQUIPMENT AB (SE)

IN2 - (L) MALMBERG JONNY; BLIXT PER; HOCKER JON A; WILSON RICK

IC2 - (L) A23L-003/04 A23L-003/18 A23L-003/40 B01J-008/16 B65G-051/03 F25D-013/06

PN3 - SE9900166 A 20000721 [SE9900166]

STG3 - (A) Application filed (number not used)

OTI3 - (A) Apparat för gasbehandling av produkter

PA3 - (A) FRIGOSCANDIA EQUIPMENT AB (SE)

IN3 - (A) MALMBERG JONNY; BLIXT PER; HOCKER JON A; WILSON RICK

IC3 - (A) A23L-003/04 A23L-003/18 A23L-003/40 F25D-013/06

PN4 - SE515811 C2 20011015 [SE-515811]

STG4 - (C2) Granted patent

OTI4 - (C2) Apparat för gasbehandling av produkter innefattande en högtryckskammare

PA4 - (C2) FRIGOSCANDIA EQUIPMENT AB (SE)

IN4 - (C2) MALMBERG JONNY; BLIXT PER; HOCKER JON A; WILSON RICK

IC4 - (C2) B01J-008/16 B65G-051/03

AP - SE9900166 19990120 [1999SE-0000166]

PR - SE9900166 19990120 [1999SE-0000166]

ICAA - F25D-013/00 [2006-01 A F I R M JP]; A21B-001/48 [2006-01 A - I R M EP]; A23L-003/00 [2006-01 A L I B M RU]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A L I B M RU]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A21B-001/00 [2006 C - I R M EP]; A23L-003/00 [2006 C L I B M RU]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C L I B M RU]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
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A23L-003/18D
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A23L-003/36D2
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F26B-025/12

DT - Corresponding document

23 / 25 *PLUSPAT - ©QUESTEL-ORBIT - image*

PN - US6354196 B1 20020312 [US6354196]

STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

TI - (B1) Apparatus for gas treatment of products

PA - (B1) FRIGOSCANDIA EQUIPMENT AS (SE)

PA0 - Frigoscandia Equipment A/S, HelsingBorg [SE]

IN - (B1) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)

IC - (B1) A23L-001/00 A23L-001/01 A23L-003/36 F25D-003/11 F25D-023/02

AP - US88967201 20010719 [2001US-0889672]

PR - WOSE0000110 20000120 [2000WO-SE00110]
SE9900166 19990120 [1999SE-0000166]

ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
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A23L-003/36D2
A23L-003/40
F25D-013/06C
F26B-017/04
F26B-021/02
F26B-025/12
PCL - ORIGINAL (O) : 099443000C; CROSS-REFERENCE (X) : 099386000 099476000 099477000 126021000A
DT - Corresponding document
UP - 2002-12

1 / 1 LEGALI - ©EPO

PN - US6354196 B1 20020312 [US6354196]
AP - US88967201 20010719 [2001US-0889672]
ACTE - 20010927 US/AS-A
ASSIGNMENT
OWNER: FRIGOSCANDIA EQUIPMENT AB BOX 913 SE-251 09 HELSIN; EFFECTIVE DATE:
20010607
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MALMBERG, JONNY;BLIXT, PER;
HOCKER, JON A.;AND OTHERS;REEL/FRAME:012201/0001

20010927 US/AS-A
ASSIGNMENT
OWNER: FRIGOSCANDIA EQUIPMENT AB BOX 913SE-251 09 HELSINB; EFFECTIVE DATE:
20010607
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MALMBERG, JONNY /AR;REEL/
FRAME:012201/0001

20040615 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040311
UP - 2006-03

24 / 25 PLUSPAT - ©QUESTEL-ORBIT - image

PN - WO200042869 A1 20000727 [WO200042869]
STG - (A1) Publ. Of int. Appl. With int. Search rep
TI - (A1) APPARATUS FOR GAS TREATMENT OF PRODUCTS
OTI - (A1) APPAREIL DE TRAITEMENT GAZEUX DE PRODUITS

PA - (A1) FRIGOSCANDIA EQUIPMENT AB (SE); MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)

PA0 - FRIGOSCANDIA EQUIPMENT AB ; Box 913 S-251 09 Helsingborg (SE) (except US)
MALMBERG, Jonny ; Nedre Holländaregatan 28 S-252 26 Helsingborg (SE) (only US)
BLIXT, Per ; Planteringsvägen 50 S-252 29 Helsingborg (SE) (only US)
HOCKER, Jon, A. ; 12721 NE 129th Court F201 Kirkland, WA 98034 (US) (only US)
WILSON, Rick ; P.O. Box 0074 Kent, WA 98035 (US) (only US)

IN - (A1) MALMBERG JONNY (SE); BLIXT PER (SE); HOCKER JON A (US); WILSON RICK (US)

IC - (A1) A23L-003/00 B01J-008/46

LA - ENGLISH (ENG)

AP - WOSE0000110 20000120 [2000WO-SE00110]

PR - SE9900166 19990120 [1999SE-0000166]

ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]

ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]

EC - A21B-001/48
A23L-003/18
A23L-003/18D
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A23L-003/36D
A23L-003/36D2
A23L-003/40
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F26B-017/04
F26B-021/02
F26B-025/12

DS - AE; AL; AM; AT; AT (Utility model); AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CR; CU; CZ; CZ (Utility model); DE; DE (Utility model); DK; DK (Utility model); DM; EE; EE (Utility model); ES; FI; FI (Utility model); GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KR (Utility model); KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SK (Utility model); SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; ARIPO Patent (GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG; ZW); Eurasian Patent (AM; AZ; BY; KG; KZ; MD; RU; TJ; TM); European Patent (AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE); OAPI Patent (BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG)

DT - Basic

UP - 2000-31

PN - WO200042869 A1 20000727 [WO200042869]

AP - WOSE0000110 20000120 [2000WO-SE00110]

ACTE - 20000727 WO/AK [+]

DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

AE AL AM AT AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ CZ DE DE DK DK DM EE EE ES
FI FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KR KZ LC LK LR LS LT LU LV MA MD
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SK SL TJ TM TR TT TZ UA UG US UZ
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DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION
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GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES
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20000920 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS
APPLICATION

20001109 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH
FROM PRIORITY DATE

20010627 WO/WWE [+]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE

< 23394/00 >

20010628 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:

CA 2356977A [2000CA-2356977]

20010718 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:

JP 2000 594341A [2000JP-0594341]

20010719 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:

US 2001 889672A 20010719 [2001US-0889672]

20011115 WO/REG; DE/8642 [-]

DE: IMPACT ABOLISHED FOR DE

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20030626 WO/WWG [+]

WIPO INFORMATION: GRANT IN NATIONAL OFFICE

< 23394/00 >

UP - 2007-37

PN - ZA200105267 A 20020626 [ZA200105267]
STG - (A) Patent specification
TI - (A) Apparatus for gas treatment of products.
PA - (A) FRIGOSCANDIA EQUIPMENT AB
IN - (A) MALMBERG JONNY; BLIXT PER; HOCKER JON A; WILSON RICK
IC - (A) A23L B01J
AP - ZA200105267 20010626 [2001ZA-0005267]
PR - SE9900166 19990120 [1999SE-0000166]
ICAA - F25D-013/00 [2006-01 A F I R M JP]; A23L-003/00 [2006-01 A - I R M EP]; A23L-003/04 [2006-01 A - I R M EP]; A23L-003/18 [2006-01 A - I R M EP]; A23L-003/3409 [2006-01 A - I R M EP]; A23L-003/3418 [2006-01 A - I R M EP]; A23L-003/3445 [2006-01 A - I R M EP]; A23L-003/36 [2006-01 A - I R M EP]; A23L-003/40 [2006-01 A - I R M EP]; B01J-008/46 [2006-01 A - I R M EP]; F25D-013/06 [2006-01 A - I R M EP]; F26B-017/04 [2006-01 A - I R M EP]; F26B-021/02 [2006-01 A - I R M EP]; F26B-025/12 [2006-01 A - I R M EP]
ICCA - A23L-003/00 [2006 C - I R M EP]; A23L-003/02 [2006 C - I R M EP]; A23L-003/16 [2006 C - I R M EP]; A23L-003/34 [2006 C - I R M EP]; A23L-003/36 [2006 C - I R M EP]; A23L-003/40 [2006 C - I R M EP]; B01J-008/24 [2006 C - I R M EP]; F25D-013/00 [2006 C - I R M EP]; F26B-017/00 [2006 C - I R M EP]; F26B-021/02 [2006 C - I R M EP]; F26B-025/06 [2006 C - I R M EP]
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UP - 2003-35

Search statement 3